

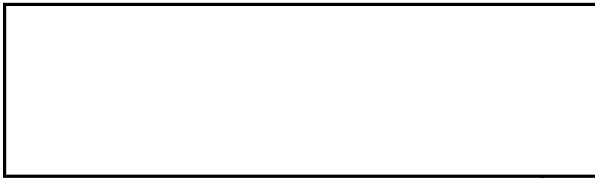
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C E R T I F I E D

Ref: 552-OD-273

16 December 1965


STAT



Progress Report - November 1965

Projects 552 and 552A

Gentlemen,

Enclosed are three (3) copies of 
Progress Report on Projects 552 and 552A for the period
November 1965.

STAT

Very truly yours,



STAT

Vice President - Operations

LHB/de

Enc: (3) P.R.

Cert. #743920

Declass Review by
NIMA/DOD

PROGRESS REPORT

For

VERSATILE, HIGH PRECISION STEREO

POINT TRANSFER DEVICE

Period Covered: November 1965
Dated: 15 December 1965
Job No.: #552, #552A
Document No.: OD-270

PROGRESS REPORT

For

VERSATILE, HIGH PRECISION STEREO

POINT TRANSFER DEVICE

Progress Report 552 & 552A for November 1965

This month we have completed miscellaneous updating assembly work, readying 552 A # 102 for shipment and examining some problems on the 552 optics.

OBJECTIVE HEAD

The approach to improve color in 552 optics by laser wavelength shift and beamsplitter change has been more thoroughly searched out. A quotation and transmission curve for reworking beamsplitter cube has not been received although the only interested vendor has assured us that image and dot, color and transmission performance can be decidedly improved over previous beamsplitter.

During the course of adjusting the 552 optics a problem was noticed preventing visual observation of point mark without seriously changing point mark size. The problem appears to be when the relay lens used to transmit target to objective lens is working very near 1:1 and its focal length is slightly shorter than desirable. Physical limitations surrounding the relay lens prevent placing it at the correct location. General alternatives, such as changing reticle size and location, and relay lens, are being studied for solutions.

ENCODER - COUNTER SUBSYSTEM

Problems regarding encoder installation on the 552 #101 have been discussed with the customer. proposal

STAT

STAT was submitted to conclude work on this section. It is important to the system delivery that approval of this proposal be received by [] before 1 December because components and work to complete the area will take at least (6) weeks.

STAT At the customer meeting November 4, 1965 the following was decided:

1. Place [] control panel on small sloped-front cabinet mounted on side of larger rack cabinet with arm allowing small cabinet to rotate in horizontal plane and to be at a convenient angle (over right hand side of joystick mechanism) for operator's use.
2. Counter, display, synchronizer and switch panel to be placed in 50 inch high cabinet on casters. Location of units in rack has been decided. Layout of switch panel and associated electronic modules and connectors has also been worked out.

System checkout of the 552A #102 went smoothly, with no unusual problems; we achieved a slight improvement of the scanning synchronization over the previous system. As before, the system will be run during acceptance with test bed glass platens that will be replaced at installation. To reduce delay between acceptance and shipping we have arranged for equipment transportation December 7.

Work for Next Reporting Period

- 1) Continue debugging 552 #101.

Enclosures

- 1) Customer review CD-139.
- 2) Financial Report